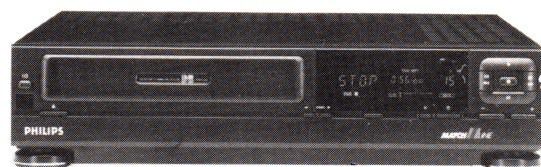
Video cassette recorder VR6590/02

Service
Service
Service

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Service Manual

VR6590/02
TV Standard: CCIR PAL BG. & PAL SECAM-Ost
Video Standard : VHS kompatibel
Hi-Fi FM audio
Normal Play und Long Play mode
D2B Bus Anschluss

Fernbedienung: AV5694/10
Service Kode : 4822 218 30569

Laufwerk : DMP 4/2

Bedienungsanleitung : 4822 736 52233

INHALT

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Bemerkung
Das vorhandene Service Manual zeigt die Differenzen zum **VR6585/02** Service Manual.
Für das Auswechselen und Einstellen von Bauteile in dem Laufwerk, wird auf die getrennte Laufwerkdokumentation **DMP4/2** verwiesen.

Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Geräts darf nicht verändert werden. Für Reparaturen sind Original-Ersatzteile zu verwenden.

VR6590/02
TV standard: CCIR PAL BG. & PAL SECAM-Ost
Video Standard : VHS compatibel
Hi-Fi FM audio
Normal Play and Long Play mode
D2B Bus connection

Remote control : AV5694/10
Service code : 4822 218 30569

Deckmecanism : DMP 4/2

Directions for use : 4822 736 52233

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Remark
This service manual shows the differences relative to the service manual for **VR6585/02**.
For the repair and the adjustment of tape-deck parts, refer to the separate tape-deck manual **DMP4/2.**

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.

Documentation Technique Service Dokumentation Documentazione di Servizio Huolte-Ohje Manual de Servicio Manual de Serviçio

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"Pour votre sécurité, ces documents doivent être utilisés par des spécialistes agrées, seuls habilités à réparer votre appareil en panne".

Subject to modification

4822 726 14867

Printed in The Netherlands

PHILIPS

Published by Consumer Electronics

CS 31 247

INHALT

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Übersicht von Printplatten und Funktionen

VR6590/02	Funktion
P045 *	Stromversorgung
P080	Schnittstelle
P083	Buchsenprint
P131 *	Frontend
P285	Display und Bedienung
P453 *	Kopfverstärker
P524 *	FM Audio
P552	Hauptlöschoszillator
P845	Kontrollprint
P945	Family Board
4a	- Linear Audio
4b *	- Signal Elektronik
4c *	- uC Teil
4d *	- Deck Elektronik

*** Fuer diese Printplatten siehe die Service Doku von VR6585/02**

Bemerkung:
P945-4c ist nur als eine Einheit lieferbar.
Kodenummer ist 4822 214 32762.

Survey of PCBs and functions

VR6590/02	Function
P045 *	Power supply
P080	Interface
P083	Socket board
P131 *	Frontend
P285	Display and control
P453 *	Head amplifier
P524 *	FM Audio
P552	Main erase oscillator
P845	Control board
P945	Family Board
4a	- Linear Audio
4b *	- Signal Electronics
4c *	- uC part
4d *	- Deck Electronics

*** For these PCBs see the service manual of the VR6585/02**

Remark:
P945-4c is only available as a unit.
codenumber is 4822 214 32762.

Specific housing parts for VR6590

Spezifische Gehäuseteile für VR6590

No.	Bezeichnung	Code	Description
104	Kassettenklappe	4822 443 63139	Cassette lid
109	Fuss -links-	4822 462 41291	Foot -left-
117	Front -komplett-	4822 443 40961	Front -complete
124	Klappe	4822 443 63138	Lid
147	Fuss -rechts-	4822 462 41291	Foot -right-
	IR-Sender AV5694/10	4822 218 30569	IR transmitter
	D2B Kabel	4822 321 60693	D2B cable

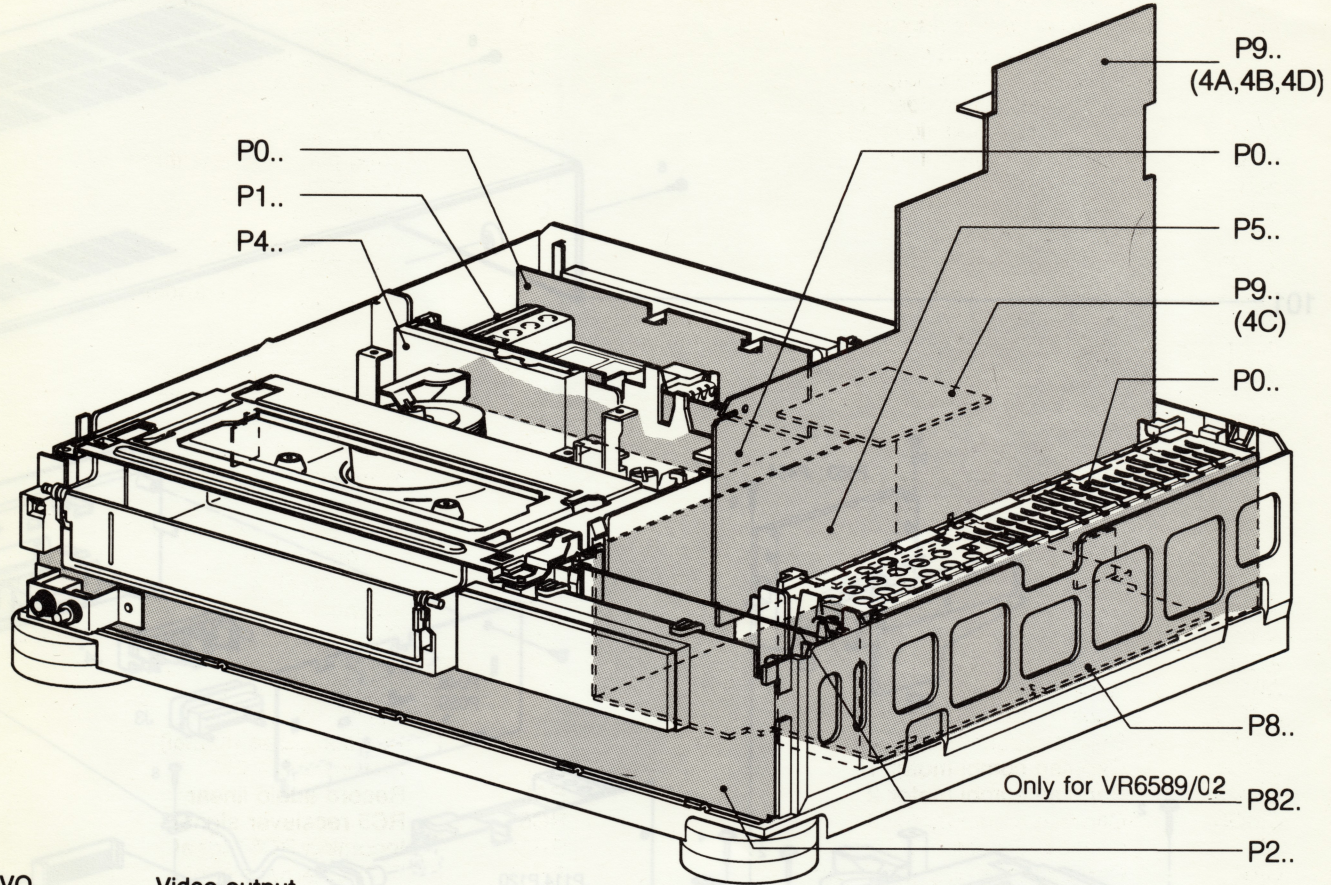
For the parts not mentioned, see service manual VR6585

Für die nicht genannte Teile siehe service Doku VR6585

P826 ONLY FOR VR6589/02

EVA.00718
934/T28

* ONLY USED IN STEREO-SETS

A/D–CON	Analog/digital control
ACLI	Audio cinch left input
ACLO	Audio cinch left output
ACRI	Audio cinch right input
ACRO	Audio cinch right output
AFV1	Audio front–end video 1
AFV2	Audio front–end video 2
AGC	Automatic gain control
AH1	Audio head 1
AH2	Audio head 2
AHC	Audio head common
ALFP	Audio left (FM) Playback
ALFR	Audio right (FM) record
ALHO	Audio level control (input)
ALHP	Audio left headphone
ALIN	Audio left input extern
ALLI	Audio left level indication
ALOH	Audio left level control
ALOU	Audio left output extern
AMCO	Audio modulator control
AMLP	Audio mono linear playback
AMLR	Audio mono linear record
ARFP	Audio right (FM) playback
ARFR	Audio right (FM) record
ARHO	Audio right level control (input)
ARIN	Audio right input extern
ARLI	Audio right level indication
AROH	Audio right level control
AROU	Audio right output extern
CAHP	Control audio headphone
CMO1	Capstan combi motor 1
CMO2	Capstan combi motor 2
CMO3	Capstan compi motor 3
CP	Serial bus clock
CPV	Chrominance playback video
CREV	Capstan reverse
CRV	Chrominance record video
CTL1	Control pulse 1
CTL2	Control pulse 2
DAT	Serial bus data
DISCHARGE	Discharge control
DL2	Dual language control
EH	Erase head
ENVC	Envelope control
EXCT	External control
EXT2	External 2
FEH	Full erase head
FFP	Feature frame pulse
FG	Frequency generator
FG1	Frequency generator 1
FG1D	Frequency generator 1 (digital)
FG2	Frequency generator 2
FG2D	Frequency generator 2 (digital)
FILH	Filement supply
FILL	Filement supply
FLP	Feature line pulse
FMAP	FM audio playback
FMAR	FM audio record
FMPV	FM playback video
FMRV	FM record video
FOSC	Oscillator frequency
GEAR	Ground ERASE/AUDIO REC head
H1+	Hall element 1 (plus)
H1–	Hall element 1 (min)
H2+	Hall element 2 (plus)
H2–	Hall element 2 (min)
H3+	Hall element 3 (plus)
H3–	Hall element 3 (min)
HES	Hall element signal
HMO1	Head motor 1
HMO2	Head motor 2
HMO3	Head motor 3
HP1	Head pulse 1 (video)
HP2	Head pulse 2 (audio)
HSC	Head select control
HSC1	Head select control 1
HSC2	Head select control 2
HSMS	Head select manual status
LED	LED signal
LED1	Led 1 signal
LED2	Led 2 signal
LED3	Led 3 signal
LH1	Long play head 1
LHC	Long play head common
LI	Left input
LO	Left output
LH2	Long play head 2
LP	Long play
LPMS	Long play multi standard
MA	Mute audio
MAAL	Manual audio level
MASM	Manual head selection
MFA	Mute Front–end audio
MFV	Mute front–end video
MSP	Multi speed
MTA	Mute audio
MTIO	Mute in/out
MUXD	Multiplex digital control
NC	Not connected
ON	On front–end
PAF	Playback audio FM
PAL	Playback audio linear
PBV	Playback video
PG	Phase generator
POR	Power on reset
POSD	Position pulse (digital)
RAF	Record audio FM
RAL	Record audio linear
RC5	RC5 receiever signal
RC5I	Incoming RC5 signal
RCEX	RC5 external signal
REC	Record control
REV	Reverse
RI	Right input
RO	Right output
RP	Record protection
SAO1	Select audio output 1
SAO2	Select audio output 2
SCL2	IIC bus 2 clock
SCL3	IIC bus 1 clock
SCRAM	Scramble control
SDA2	IIC bus 2 data
SDA3	IIC bus 1 data
SEL0	Select control 0
SEL1	Select control 1
SH1	Standard play head 1
SH2	Standard play head 2
SHC	Standard play head common
SHP	Sharpness control
SOL	Solenoid
SP	Standard play
STA1	Status audio 1
STA2	Status audio 2
STR	Strobe signal
SWA	Switch A
SWB	Switch B
SWC	Switch C
SYNCPB	Sync playback signal
SYNCREC	Sync record signal
TAE	Tape end
TAHD	Tacho head digital
TAS	Tape start
TPC	Test picture control
TRIA	Tracking information audio
TRIV	Tracking information video
UART1	Uart bus 1
UART2	Uart bus 2
VBS	Video record
VFV	Video front–end video
VI	Video input
VIN	Video in
VMCO	Video modulator control
VO	Video output
VOUT	Video out
VSB	Video playback
WTAL	Wind tacho left
WTALD	Wind tacho left digital
WTAR	Wind tacho right
WTARD	Wind tacho right digital

P9..
(4A,4B,4D)
P0..
P1..
P4..
P0..
P5..
P9..
(4C)
P0..
P8..
Only for VR6589/02
P82.
P2..
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Übersicht von Printplatten und Funktionen

VR6590/02 Funktion

P045 * Stromversorgung
P080 Schnittstelle
P083 Buchsenprint
P131 * Frontend
P285 Display und Bedienung
P453 * Kopfverstärker
P524 * FM Audio
P552 Hauptlöschoszillator
P845 Kontrollprint
P945 Family Board
4a - Linear Audio
4b * - Signal Elektronik
4c * - uC Teil
4d * - Deck Elektronik

*** Fuer diese Printplatten siehe die Service Doku von VR6585/02**

Survey of PCBs and functions

VR6590/02 Function

P045 * Power supply
P080 Interface
P083 Socket board
P131 * Frontend
P285 Display and control
P453 * Head amplifier
P524 * FM Audio
P552 Main erase oscillator
P845 Control board
P945 Family Board
4a - Linear Audio
4b * - Signal Electronics
4c * - uC part
4d * - Deck Electronics

*** For these PCBs see the service manual of the VR6585/02**

BLOCK DIAGRAM PART 2

5-1

INTERFACE CBA P080

		2351	E 6	2395	F 8	2480	D 4	3320	F 5	3351	E 6	3422	E 8	3433	D 8	3446	D10	3475	E 4	3491	C 7	3602	F 6	6346	D 6	7420	E 8	7500	F 3	n3	C 4
1500	F 3	2352	D 6	2396	E 6	2490	D 7	3321	E 3	3352	D 6	3423	D10	3434	D 9	3448	E10	3476	D 5	3492	C 7	3603	F 6	6410	F 5	7425	D 8	7520	E 3	n4	C 5
1510	F 3	2355	E 7	2397	F 8	2491	D 7	3341	E 6	3355	F 7	3424	D 9	3436	E 8	3454	D 8	3477	D 5	3495	D 8	3606	F 6	6491	C 7	7432	D 9	7601	F 6	n5	C10
2321	F 5	2357	E 6	2431	D 9	2492	D 7	3342	E 6	3356	E 6	3425	E 8	3437	D 9	3455	C 8	3478	E 5	3500	E 3	3607	F 6	7325	F 5	7440	D 9	7605	F 6	n6	D 5
2322	E 5	2360	F 8	2436	D 8	2506	F 2	3343	E 7	3357	E 6	3426	E 8	3438	D 9	3456	D 9	3480	D 3	3501	E 3	5325	F 3	7345	E 6	7455	D 9	n10	D 8	n8	D 3
2323	F 5	2361	F 7	2455	D 8	2524	C 8	3344	E 7	3413	E 5	3427	E10	3441	D 7	3457	D 9	3481	D 3	3505	E 3	5501	F 3	7350	D 6	7475	E 5	n11	G 6		
2325	F 4	2362	E 8	2457	D 9	2530	D 6	3345	E 6	3414	D 9	3430	E 8	3443	D 7	3470	E 5	3482	D 3	3507	F 3	5505	E 3	7351	E 6	7480	D 3	n12	G 9		
2335	E 3	2363	F 7	2474	E 4	2601	F 7	3346	D 7	3420	E 9	3431	E 9	3444	D 9	3471	E 4	3483	C10	3520	E 3	5530	C 6	7355	E 7	7485	D 4	n18	D 4		
2345	E 6	2394	F 6	2476	D 5	2605	F 7	3350	E 6	3421	E 8	3432	D 9	3445	D 9	3474	E 4	3484	C 4	3533	E 3	6345	D 5	7413	E 5	7486	D 5	n2	D 2		

7480
- 1 – 0,1V
- 2 –10,8V
- 3 – 0,1V
- 4 – 0V
- 5 – 0V
- 6 – 0V
- 7 – 0V
- 8 – 0V
- 9 – 0V
- 10 – 0V
- 11 – 0V
- 12 – 0V
- 13 – 0V
- 14 – 0V
- 15 –11,8V
- 16 –11,8V

7485
- 1 – 0V
- 2 – 0V 12,3V
- 3 – 0V
- 4 –11,4V
- 5 –11,8V
- – 0V for VR6785
- 6 – 0V
- 7 – 0V
- 8 – 0V
- 9 –11,8V
- 10 –11,8V
- 11 – 0V
- 12 – 0V
- 13 – 0V
- 14 –11,8V
- 15 –11,8V
- 16 –11,8V

7486
- B –11,3V
- C – 0V
- E – 0V

7475
- B –4,3V
- C –7,8V
- E –3,7V

7413
- B – 5,7V
- C – 4,8V
- E – 7,7V

7451
- B –6,9V
- C –11,8V
- E –6,3V

7350
- 1 –7,5V
- 2 –7,7V
- 3 –7,5V
- 4 –7,7V
- 5 –7,7V
- 6 –0,5V
- 7 – 0V
- 8 – 0V
- 9 – 0V
- 10 – 0V
- 11 – 0V
- 12 – 3,8V
- 13 – 0V
- 14 – 3,8V
- 15 – 7,7V
- 16 –11,8V

7425
- B –7,1V
- C –11,8V
- E –6,4V

7432
- B –6,7V
- C –11,8V
- E –6,2V

7455
- B –0,7V
- C – 0V
- E –4,0V

7440
- 1 –7,7V
- 2 –7,5V
- 3 –7,7V
- 4 –7,7V
- 5 –7,5V
- 6 – 0V
- 7 – 0V
- 8 – 0V
- 9 –11,8V
- 10 –11,8V
- 11 – 0V
- 12 – 6,3V
- 13 – 6,4V
- 14 – 6,3V
- 15 – 7,7V
- 16 –11,8V

7420
- 1 –7,6V
- 2 –7,5V
- 3 –7,5V
- 4 –7,6V
- 5 –7,5V
- 6 –11,7V
- 7 – 0V
- 8 – 0V
- 9 – 0V
- 10 – 0V
- 11 – 7,7V
- 12 – 7,6V
- 13 – 7,5V
- 14 – 7,6V
- 15 – 7,5V
- 16 –11,8V

7520
- B – 0V
- C – 2,3V
- E – 0V

7500
- B – 4,4V
- C – 5,2V
- E – 5,2V

7325
- 1 – 8,1V
- 2 – 0V
- 3 – 8,2V
- 4 – 9,4V
- 5 – 0V
- 6 – 8,2V
- 7 –11,8V 0V
- 8 – 7,3V
- 9 –11,8V

7601
- B – 7,2V
- C –11,7V
- E – 6,5V

7605
- B – 7,1V
- C –11,8V
- E – 6,6V

7355
- B – 7,2V
- C –11,8V
- E – 6,4V

7345
- B – 3,8V
- C –11,6V
- E – 3,3V

Waveforms: 0V, 2V, 64μs (×2); 1,5V; 1,8V; 0V, 2V, 64μs, REC.; 2V, REC.; 1,7V; 1,5V; 0V, 1V, 64μs

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5-2

SOCKET BOARD P083

BP3	C1	BP8	A2	6001	B1	6014	C2	6042	B3	6703	A7	9812	C6	9881	A7
BP4	B1	BP9	A3	6002	B1	6015	C2	6043	B3	6704	B7	9815	B4	9901	A4
BP4	B2	1702	B7	6005	B1	6016	C3	6044	B1	7110	B4	9816	B2	9902	A7
BP4	B2	3500	B1	6007	B1	6020	C2	6045	B1	7701	C6	9817	B2	BP11	C1
BP4	B3	3501	B2	6010	B2	6021	C3	6046	B3	9802	B1	9830	B2	BP12	C4
BP5	A6	3703	B6	6011	C2	6040	B1	6047	B3	9804	A2	9870	B3	BP13	B5
BP6	A3	5002	C1	6013	C3	6041	B1	6110	A3	9807	A3	9880	A7	BP15	B6

P083

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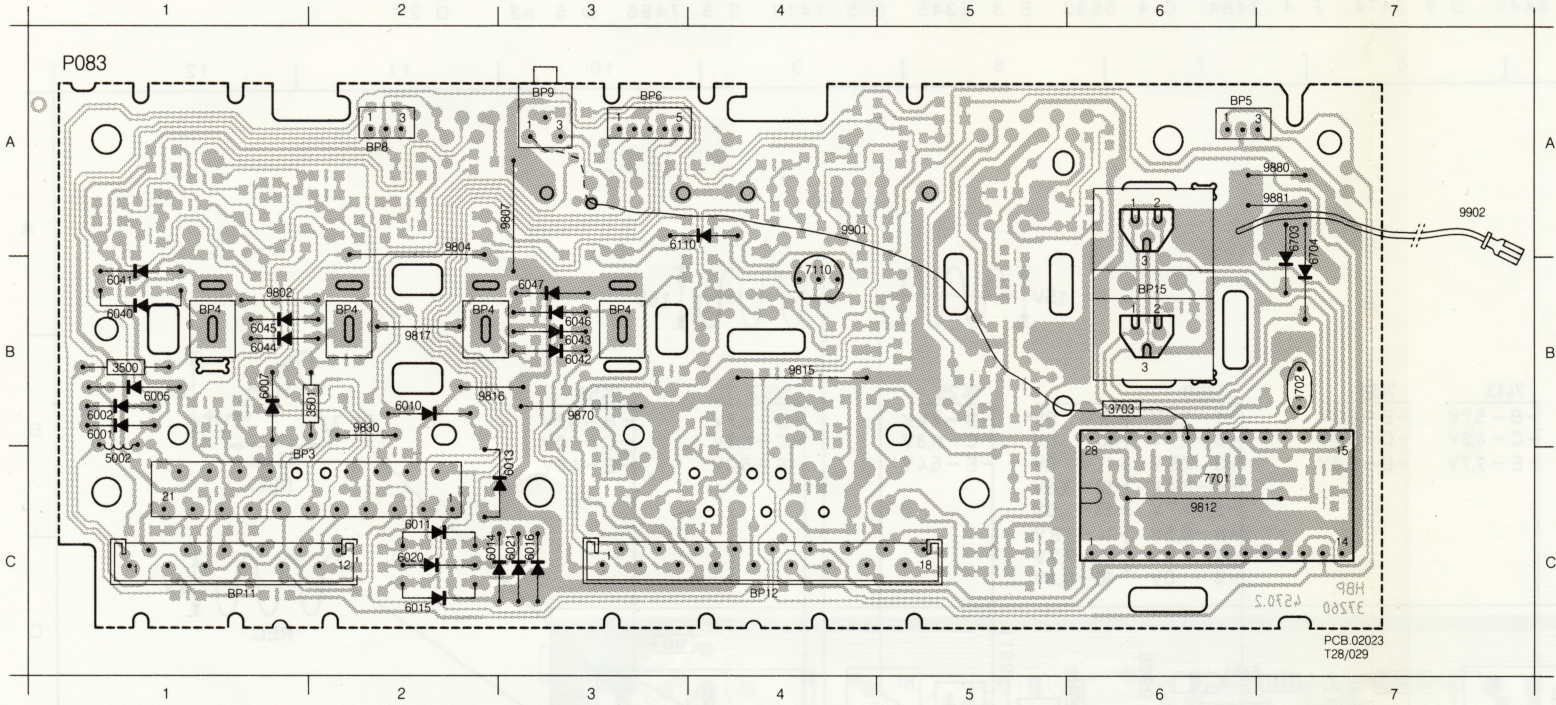
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2701	C2	3001	C7	3012	C6	3021	C6	3044	B6	3111	B3	3118	C6	3905	C2	3931	C6	7115	B3
2702	C1	3005	C7	3013	C5	3040	B7	3045	B5	3115	B3	3701	B2	3906	C5	3944	B3		
2703	C1	3010	C6	3015	C5	3041	B5	3046	B5	3116	B3	3702	C1	3910	A5	3945	B3		

P083

PCB 02024
T28/029

CIRCUIT DIAGRAM DISPLAY & CONTROL P285

Item	Location
1002	C10
2004	B10
2005	C10
2011	B8
2012	B9
2020	I 3
2021	H5
2022	I 6
2031	C7
2070	N2
2071	N3
2072	D7
2073	E7
3001	I 7
3002	J7
3003	J7
3020	H3
3021	G3
3022	I 5
3023	H6
3026	I 5
3027	I 5
3028	H7
3029	H4
3030	C6
3031	C6
3032	B7
3033	C7
3040	O6
3041	O7
3042	O7
3043	O8
3050	C15
3051	C14
3052	C14
3061	H7
3066	L3
3067	J3
3068	K3
3068	L3
3070	M3
3081	I 3
3082	J3
3083	D4
3084	D4
3085	C5
3086	D5
3090	E2
3091	F3
3092	F2
3093	G3
3094	E3
3095	F3
5010	A9
5070	M2
5071	N2
5072	N2
6020	H5
6040	N10
6041	M10
6042	M10
6043	L10
6044	L10
6045	K10
6046	K10
6050	C14
6072	N3
7030	C6
7101	B10
7121	H2
7140	D11

5-4

Adjustment on P285

Adjustment of the deflection of the bargraph
-3090 for right- -3092 for left-

- Apply a 500 mVrms 1 kHz signal to the cinch connector.
- Recorder in position "PAUSE, AUDIO EXTERN (E1)".
- Slide potentiometers 3068-2A (L) and 3068-2B (R) in the mechanical middle position.
- Adjust 3090 (R) and 3092 (L) so, that the deflection of the bargraph is 0 dB.

Einstellungen auf P285

Aussteuerung der Fluoreszenzmesser (3090 R, 3092 L)

- Signal von 500 mVeff 1 kHZ zuführen an Cinch Buchse.
- Recorder in Position "PAUSE, AUDIO EXTERN (E1)".
- Schiebepotentiometer 3068-2A (L) und 3068-2B (R) in die mechanische Mitte.
- 3090 (R) und 3092 (L) so einstellen, daß die Aussteuerung am Fluoreszenzmesser 0 dB anzeigt.

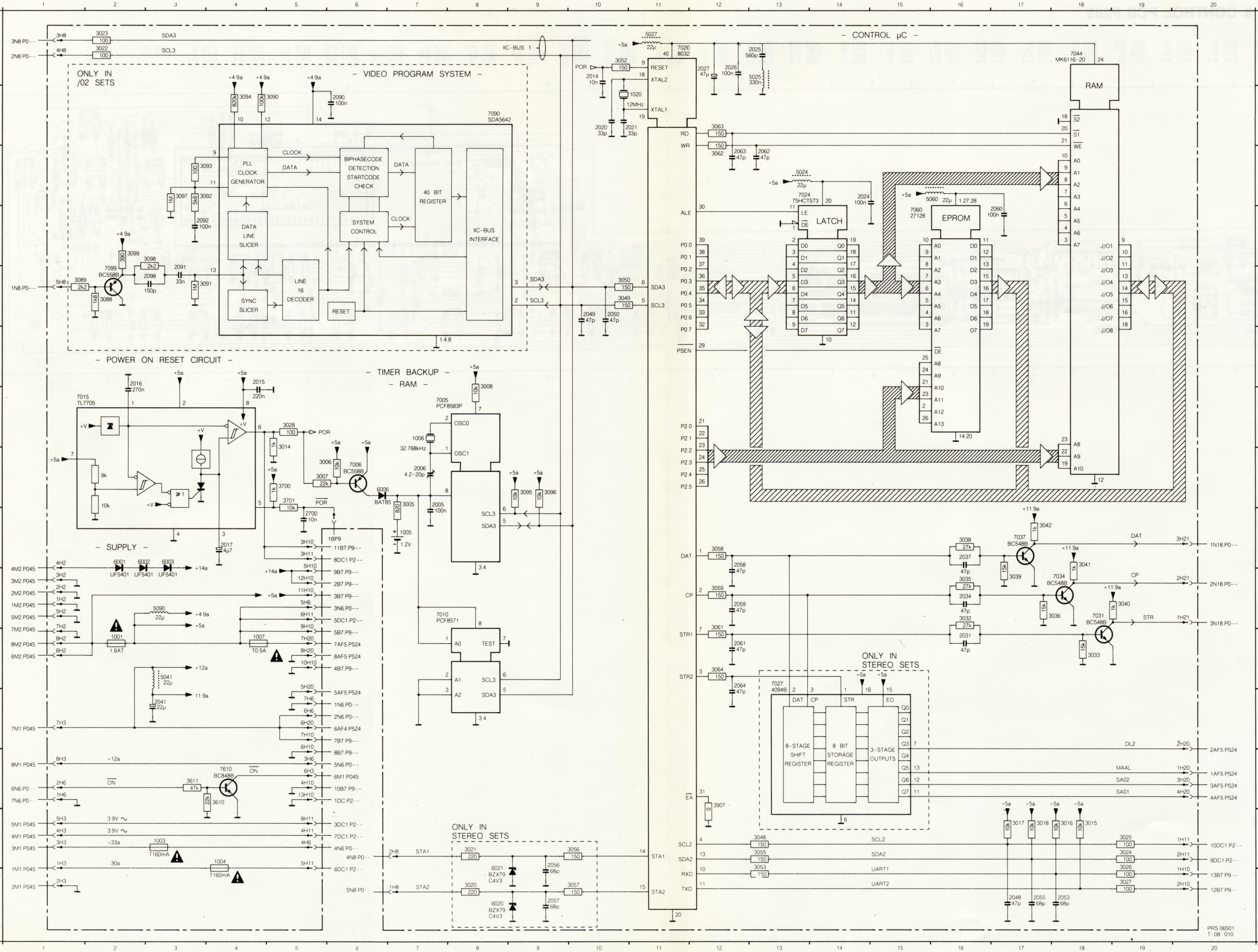
DISPLAY & CONTROL PCB P285

Component	Position
DC1	A12
DC2	C3
DC3	C8
1002	B15
2004	B15
2005	B15
2011	A12
2012	C11
2020	A1
2021	C5
2022	C4
2031	B16
2070	C3
2071	C3
2072	A14
2073	A14
3001	A15
3004	B15
3020	C1
3021	C3
3022	C5
3023	C4
3026	C5
3027	C5
3028	B4
3029	C4
3030	A16
3031	A16
3032	B16
3033	B16
3040	C8
3041	A16
3042	C8
3043	A15
3050	B10
3051	B10
3052	B10
3061	B5
3066	C7
3067	C7
3068	C6
3070	C2
3081	B4
3082	A11
3083	A13
3084	A13
3085	A15
3086	A15
3090	C8
3091	C8
3092	B9
3093	C9
3094	A14
3095	A14
5010	B11
5070	C4
5071	C3
5072	C4
6020	C4
6040	B14
6041	C14
6042	C13
6043	C13
6044	C12
6045	C12
6046	C12
6050	B10
6072	B2
7030	A16
7101	A13
7120	C4
7121	B1
7140	A10
9001	B1
9002	B3
9003	C4
9004	C9
9005	B10
9006	C10
9007	C12
9008	C11
9009	C11
9010	C13
9011	B14
9012	B15
9013	A15
9014	A15
9015	A15
9018	A14
9019	A12
9020	C12
9021	A14
9022	B14
9023	B13
9101	C14
9102	B14
9105	C4
9202	C11
9203	C14
9204	B15
9205	C15
9206	C15

** ONLY FOR /39

*** ONLY FOR D2B

PCB 03077
T12/029

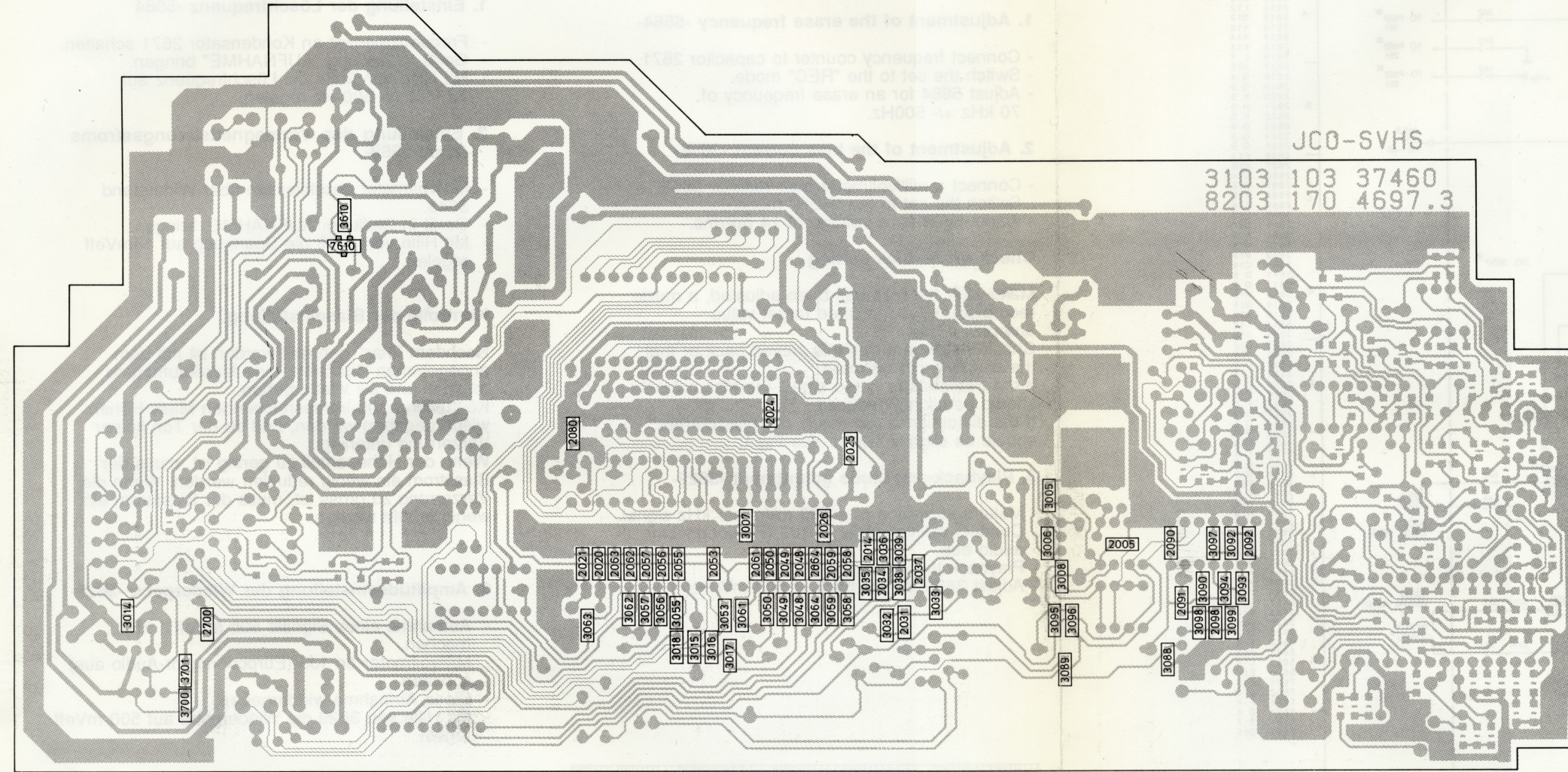
CIRCUIT DIAGRAM CONTROL BOARD P845

Item	Position
1001	K2
1003	N3
1004	N4
1005	I 7
1006	G7
1007	K4
1020	B11
2005	H7
2006	H7
2014	A10
2015	F4
2016	F2
2017	I 4
2020	B10
2021	B10
2024	C14
2025	A13
2026	A12
2027	A12
2031	K16
2034	J16
2037	I 16
2041	L3
2048	O17
2049	E10
2050	E10
2053	O18
2055	O17
2056	N9
2057	O9
2058	I 12
2059	J12
2060	D17
2061	K12
2062	C13
2063	C12
2064	K12
2090	B6
2091	E3
2092	D3
2098	E3
2700	I 5
3005	H7
3006	H5
3007	H5
3008	G8
3014	H5
3015	N18
3016	N18
3017	N17
3018	N17
3020	O8
3021	N8
3022	A2
3023	A2
3024	N19
3025	N19
3026	O19
3027	O19
3028	G5
3032	J16
3033	K18
3035	J16
3036	J17
3038	I 16
3039	J17
3040	J19
3041	I 18
3042	I 17
3048	N13
3049	E10
3050	E10
3052	A10
3053	O13
3055	N13
3056	N10
3057	O10
3058	I 12
3059	J12
3061	K12
3062	C12
3063	B12
3064	K12
3088	E2
3089	E1
3090	B5
3091	E3
3092	C3
3093	C3
3094	B4
3095	H9
3096	H9
3097	C3
3098	D3
3099	D2
3610	M4
3611	M3
3700	H5
3701	H5
3907	M12
5024	C13
5025	A13
5027	A11
5041	K3
5060	C16
5090	J3
6001	I 2
6002	I 2
6003	I 3
6006	H6
6020	O8
6021	O8
7005	G7
7006	H6
7010	J7
7015	G1
7020	A11
7024	C13
7027	K13
7031	J18
7034	J18
7037	I 17
7060	D15
7090	B8
7099	E2
7610	M4

PRS 06501
T-08 010

CONTROL BOARD PCB P845

5-7

5-7

5-7

CONTROL CBA P845

Adjustments on control CBA P845

Timer clock adjustment (2006)

- Connect a frequency counter via a FET-probe to pin 2 of IC7005.
- Adjust 2006 until the frequency is 32.768 kHz +/- 0.12 Hz.

Einstellungen an P845

Der Einstellung der 'timer-clock' Frequenz (2006)

- Einen Frequenzmesser mittels eine FET Probe an Anschluss 2 von IC7005 schalten.
- 2006 so regeln, dass die Frequenz 32.768 kHz +/- 0.12 Hz betraegt.

LINEAR AUDIO P945-4A

P9..-4A

Item	Location
2603	C16
2604	E 8
2605	C 5
2606	G14
2608	H12
2610	I 12
2612	G12
2613	K15
2614	K14
2615	K15
2616	L 7
2617	M15
2618	G 4
2619	G 5
2620	K 5
2621	H 5
2622	F 5
2623	G 8
2624	G 9
2625	G 9
2626	F11
2627	K16
2666	C14
2667	D16
2668	E15
2669	F16
2670	E17
2671	D16
3601	F 3
3602	D 4
3603	B15
3604	C15
3611	D 8
3612	D 9
3613	H15
3614	G15
3616	H12
3617	I 12
3619	G13
3620	G12
3625	M15
3626	L 7
3627	L 6
3628	K 5
3629	K 4
3632	F 5
3633	G 4
3634	G 5
3635	E 9
3636	F 9
3637	F 4
3638	G 9
3639	G 9
3640	F11
3641	F 4
3642	K16
3643	K16
3644	F 3
3645	D 4
3646	C 4
3647	D 4
3661	B 7
3662	A 7
3663	A 7
3666	C15
3667	E14
3668	E16
3920	G16
3921	C 3
3922	F 3
5601	H12
5662	C14
5664	E15
7601	E 3
7602	D 3
7604	F 4
7651	B 6
7661	B 7
7663	D15

■ ONLY FOR VR6589

PRS 06210 T02-938

LINEAR AUDIO P945-4A

Adjustments of the linear audio section on P945

1. Adjustment of the erase frequency -5664-

- Connect frequency counter to capacitor 2671.
- Switch the set to the "REC" mode.
- Adjust 5664 for an erase freqeuncy of 70 kHz +/- 500Hz.

2. Adjustment of the bias current -3668-

- Connect a millivoltmeter over resistor 3643.
- Switch the set to the "REC" mode.
- Adjust 3668 for a voltage of 14 mVrms.

Check of the bias setting

Make after the bias has been adjusted, a music recording on the indicated target value and play it back.
Check if sufficient treble is played back or that the sound is not distorted.
If the treble share is too small, the bias current should be slightly reduced.
If the distorsion is too much, the bias current should be slightly raised. see Fig.1.

3. Playback-amplitude adjustment -3629-

- Make a recording of a 500 mVrms 1 kHz signal.
- Connect millivoltmeter to 1J3 (Euroconnector audio out).
- Playback this recording.
- Adjust 3629 for playback at 500 mVrms.

Einstellungen für den Linearaudioteil auf P945

1. Einstellung der Löschfrequenz -5664

- Frequenzmesser an Kondensator 2671 schalten.
- Gerät in Stellung "AUFNAHME" bringen.
- Mit Hilfe von 5664 die Löschfrequenz auf 70 kHz +/- 500 Hz regelen.

2. Einstellung des Vormagnetisierungsstroms (bias)-3668-

- Millivoltmeter anschliessen über Widerstand 3643.
- Gerät in Stellung "AUFNAHME" bringen.
- Mit Hilfe von 3668 die Spannung auf 14mVeff regelen.

Kontrolle der Biaseinstellung.

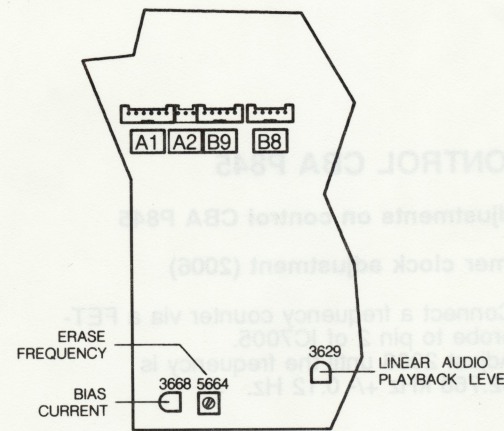
Nachdem "bias" geregelt worden ist mit dem angegebenen Richtwert, eine Musikaufnahme machen und sie wiedergeben.
Kontrolieren, ob im ausreichenden Mass Höhen wiedergegeben werden, und ob der Ton keiner Verzerrung unterliegt.
Wenn der Höhenanteil zu gering ist, muss der Biasstrom ein wenig reduziert werden. Wenn die Verzerrung zu gross ist, muss der Biasstrom ein wenig erhöht werden.

3. Amplitudeeinstellung der Wiedergabe -3629-

- Aufnahme eines Signals 500 mVeff 1 kHz machen.
- Millivoltmeter an 1J3 (Euroconnector-Audio aus) schalten.
- Diese Aufnahme wiedergeben.
- Mit Hilfe von 3629 die Wiedergabe auf 500 mVeff regeln.

a = distortion too high / bias level too low
b = bias correct
c = bias level too high
Vu
f
29 476 A12

Fig. 1

A1 A2 B9 B8
ERASE FREQUENCY
BIAS CURRENT
3668 5664
3629
LINEAR AUDIO PLAYBACK LEVEL

A2 ONLY FOR VR6589

MDA 02074 127/938

Adjustments on P552

1.1 Adjustment of the erase frequency

- Select the record mode
- Measure on the erase head by means of a frequency meter.
- Adjust 5001 for a frequency of 70 kHz +/- 10 kHz.

Einstellungen an P552

1.1 Einstellung der Löschfrquenz

- Bringen Sie den Video-Recorder in den Rec-Mode.
- Messen Sie mit einem Frequenzzähler am Löschkopf.
- Stellen sie mit 5001 die Frequenz auf 70 kHz +/- 10 kHz ein

LINEAR AUDIO P945-4A

2604	B1	2617	C2	2670	D2	3667	D2	9047	B1	9070	B2	A2	A1
2605	B2	2618	C3	3001	A2	3668	D1	9048	B1	9072	B3	B8	A2
2606	B2	2620	D2	3611	B1	5601	B2	9049	C1	9073	A2	B9	A2
2608	B2	2622	D2	3612	B2	5662	D2	9054	A2	9078	A2	V2	A3
2610	B2	2623	C2	3629	D3	5664	D1	9059	B2	9080	A3	V2	A3
2612	B2	2666	D3	3644	B3	7631	C2	9062	C2	9081	B3		
2613	C1	2667	D2	3645	B2	7661	D1	9064	B2	9088	A3		
2614	C2	2668	D2	3646	B2	7663	D3	9065	B2	9175	B1		
2616	C2	2669	D1	3666	D2	9046	B1	9067	B2	A1	B1		

2603	C3	2671	D1	3616	B2	3632	C3	3640	C2	3801	A2	7016	A3
2615	C2	3010	A2	3617	C2	3633	C3	3641	C3	3813	A3	7601	B3
2619	D2	3601	B2	3619	C2	3634	D2	3642	D1	3814	A2	7602	B3
2621	C2	3602	B2	3620	C2	3635	C2	3643	D1	3912	A3	7604	C3
2624	C3	3603	B3	3625	C2	3636	C2	3647	C1	3920	B1		
2625	C2	3604	C3	3626	C2	3637	C3	3661	D2	3921	B1		
2626	C3	3613	B1	3627	C2	3638	C2	3662	D2	3922	B2		
2627	D2	3614	C1	3628	C2	3639	C2	3663	D2	7015	A3		

PCB.01776
T27-938

PCB.01409
T07-909

MAIN ERASE OSCILLATOR P552

2001	A 4	2004	B 6	3001	A 3	3004	B 4	3007	C 3	6001	C 2	7003	B 5
2002	B 5	2005	B 7	3002	A 3	3005	B 5	3008	C 2	7001	A 4		
2003	B 5	2006	C 3	3003	B 3	3006	A 5	5001	B 6	7002	B 3		

PRS.06203
T-08 938

PCB.01686
T03/010

	4822 264 50207	18-FOLD
	4822 266 40133	12-FOLD
	4822 267 50406	8-FOLD
	4822 267 50721	9-FOLD
	4822 267 40624	5-FOLD
	4822 267 50621	7-FOLD
	4822 267 50651	12-FOLD
	4822 267 40696	3-FOLD
	4822 403 70012	Bracket
1500	4822 214 32479	Modulator
1510	4822 214 32481	HGD ASSY

Capacitors

2321	4822 124 41506	47UF 16V
2322	4822 124 41506	47UF 16V
2323	4822 122 31237	82PF 100V
2325	4822 124 22426	100UF 16V
2335	4822 124 41506	47UF 16V
2345	4822 121 51522	22NF 50V
2351	4822 124 41999	4,7UF 25V
2352	4822 122 33197	1NF 50V
2355	4822 124 41999	4,7UF 25V
2357	4822 122 33399	1NF 63V
2360	4822 124 20697	10UF 25V
2361	4822 124 20697	10UF 25V
2362	4822 124 20697	10UF 25V
2363	4822 124 20697	10UF 25V
2394	4822 124 41521	10U 25V
2395	4822 124 41521	10U 25V
2396	4822 124 40435	10UF 50V
2397	4822 124 41521	10U 25V
2431	4822 121 41719	1UF 100V
2436	4822 121 41719	1UF 100V
2455	4822 124 22426	100UF 16V
2457	4822 124 22425	2,2UF 50V
2474	4822 124 22426	100UF 16V
2476	4822 122 10166	22NF 16V
2480	4822 122 33077	100NF 25V
2490	5322 121 42386	100NF 63V
2491	4822 124 22714	220NF 25V
2492	4822 124 41521	10U 25V
2506	4822 124 22426	100UF 16V
2524	4822 124 20697	10UF 25V
2530	4822 124 22714	220NF 25V
2601	4822 124 41999	4,7UF 25V
2605	4822 124 41999	4,7UF 25V

Resistors

3320	4822 116 52289	5K6
3321	4822 116 52289	5K6
3341	4822 116 81471	33R
3342	4822 116 52234	100K
3343	4822 116 52202	82E
3344	4822 116 52202	82E
3345	4822 116 52269	3K3
3350	4822 116 80174	2K2
3351	4822 116 52297	68K
3352	4822 116 52234	100K
3355	4822 116 80174	2K2
3356	4822 116 52297	68K
3357	4822 116 52234	100K
3413	4822 116 80173	10K
3414	4822 116 52263	2K7
3420	4822 116 52272	330K
3421	4822 116 52272	330K
3422	4822 116 52272	330K
3423	4822 116 52272	330K
3424	4822 116 52272	330K
3425	4822 116 52272	330K
3426	4822 116 52272	330K
3427	4822 116 52272	330K
3430	4822 116 52234	100K
3431	4822 116 52272	330K
3432	4822 116 52277	39K
3433	4822 116 52277	39K

Resistors

3434	4822 116 52228	680E
3435	4822 116 52228	680E
3436	4822 116 52272	330K
3437	4822 116 52215	220E
3438	4822 116 52215	220E
3441	4822 116 52234	100K
3443	4822 116 52234	100K
3444	4822 116 52277	39K
3445	4822 116 52277	39K
3446	4822 116 52234	100K
3448	4822 116 52234	100K
3454	4822 116 52215	220E
3455	4822 116 52204	1K
3456	4822 116 52249	1K8
3457	4822 116 80175	4K7
3470	4822 116 52226	560E
3471	4822 116 52228	680E
3474	4822 116 52251	18K
3475	4822 116 52238	12K
3476	4822 116 52202	82E
3477	4822 116 52202	82E
3478	4822 116 52202	82E
3480	4822 116 80173	10K
3481	4822 116 80173	10K
3482	4822 116 80173	10K
3483	4822 116 52234	100K
3484	4822 116 52234	100K
3491	4822 116 52204	1K
3492	4822 116 52215	220E
3500	4822 116 52204	1K
3501	4822 116 52211	150E
3505	4822 116 52201	75E
3507	4822 116 52202	82E
3520	4822 116 52249	1K8
3533	4822 116 52204	1K
3602	4822 116 52263	2K7
3603	4822 116 52239	120K
3606	4822 116 52263	2K7
3607	4822 116 52239	120K
3700	4822 116 52269	3K3

Coils

5325	4822 157 53941
5501	4822 157 53941
5505	4822 157 52841
5530	4822 157 53644

Diodes

6410	4822 130 30621	1N4148 (NSC)
6491	4822 130 30861	BZX55-C7V5 (TEG)

Transistors / ICs

7325	4822 209 60128	TA7348P
7345	4822 130 41344	BC337-40 (ITT)
7350	5322 209 10576	TC4053BP
7351	4822 130 40937	TBC548B
7355	4822 130 40937	TBC548B
7413	4822 130 60955	DTA144WF
7420	4822 209 71628	TC4052BP
7425	4822 130 44196	TBC548C
7432	4822 130 44196	TBC548C
7440	5322 209 10576	TC4053BP
7455	4822 130 44196	TBC548C
7475	4822 130 41344	BC337-40 (ITT)
7480	5322 209 10421	TC4094BP
7481	4822 130 60328	DTC144WF
7485	5322 209 10421	TC4094BP
7486	4822 130 81273	DTD143EF
7500	4822 130 41715	BC328-40
7520	4822 130 44196	TBC548C
7601	4822 130 44196	TBC548C
7605	4822 130 44196	TBC548C

Socket board P083

CONNECTORS

	4822 266 40159	CONNECTOR 18P
	4822 267 50367	CONNECTOR 12P
	4822 265 41067	CONNECTOR SET
	4822 502 11838	SCREW 4NX112
	4822 267 60254	SCART CONNECTOR
	4822 267 20367	CINCH CONNECTOR
	4822 264 40256	CONNECTOR 3P
	4822 265 41066	D2B CONNECTOR

MISCELLANEOUS

1070	4822 277 21297	
1702	4822 242 70392	CRYSTAL 6MHZ

CAPACITORS

2002	4822 122 31765	100 pF	50V
2005	4822 122 31765	100 pF	50V
2102	5322 121 43063	1 µF	63V
2070	4822 124 41498	10 µF	25V
2701	4822 122 32442	10 nF	
2702	4822 122 31947	100 nF	
2703	4822 122 32504	15 pF	
2704	4822 122 32504	15 pF	

RESISTORS

3001	4822 051 10759	75 Ω
3002	4822 051 10008	0 Ω
3005	4822 051 10369	36 Ω
3006	4822 051 10339	33 Ω
3010	4822 051 10563	56 kΩ
3012	4822 051 10471	470 Ω
3013	4822 051 10563	56 kΩ
3015	4822 051 10563	56 kΩ
3020	4822 051 10563	56 kΩ
3021	4822 051 10471	470 Ω
3040	4822 051 10334	330 kΩ
3041	4822 051 10471	470 Ω
3042	4822 051 10563	56 kΩ
3044	4822 051 10334	330 kΩ
3045	4822 051 10471	470 Ω
3046	4822 051 10563	56 kΩ
3071	4822 101 11062	POTMETER 10K
3101	4822 051 10563	56 kΩ
3102	4822 051 10104	100 kΩ
3103	4822 051 10472	4.7 kΩ
3104	4822 051 10224	220 kΩ
3105	4822 051 10472	4.7 kΩ
3111	4822 051 10339	33 Ω
3112	4822 051 10102	1 kΩ
3115	4822 051 10472	4.7 kΩ
3116	4822 051 10152	1.5 kΩ
3117	4822 051 10103	10 kΩ
3118	4822 051 10473	47 kΩ
3701	4822 116 90536	120 Ω
3702	4822 051 10105	1M Ω
3703	4822 116 80173	10K Ω
3902	4822 051 10008	0 Ω
3905	4822 051 10008	0 Ω
3906	4822 051 10008	0 Ω
3910	4822 051 10008	0 Ω
3930	4822 051 10008	0 Ω
3931	4822 051 10008	0 Ω
3944	4822 051 10008	0 Ω
3945	4822 051 10008	0 Ω

DIODES

6001	4822 130 34278	BZX79-C6V8
6002	4822 130 34278	BZX79-C6V8
6005	4822 130 34278	BZX79-C6V8
6007	4822 130 31024	BZX79-C18
6010	4822 130 34278	BZX79-C6V8
6011	4822 130 34278	BZX79-C6V8
6013	4822 130 34278	BZX79-C6V8
6014	4822 130 34278	BZX79-C6V8
6015	4822 130 34278	BZX79-C6V8
6016	4822 130 34278	BZX79-C6V8
6020	4822 130 34278	BZX79-C6V8
6021	4822 130 34278	BZX79-C6V8
6040	4822 130 34278	BZX79-C6V8
6041	4822 130 34278	BZX79-C6V8
6042	4822 130 34278	BZX79-C6V8
6043	4822 130 34278	BZX79-C6V8
6044	4822 130 34278	BZX79-C6V8
6045	4822 130 34278	BZX79-C6V8
6046	4822 130 34278	BZX79-C6V8
6047	4822 130 34278	BZX79-C6V8
6110	4822 130 31983	BAT85
6111	4822 130 30621	1N4148
6112	4822 130 30621	1N4148
6702	5322 130 80406	BZX84-C6V8
6703	4822 130 34278	BZX79-C6V8
6704	4822 130 34278	BZX79-C6V8

TRANSISTORS & IC's

7102	5322 130 41982	BC848B
7105	5322 130 41982	BC848B
7110	4822 130 44197	BC558B
7112	5322 130 41983	BC858B
7115	5322 130 41982	BC848B
7701	~~4822 209 61881~~ 2096 1087	D2B IC

Display & control CBA P285

CONNECTORS

	4822 403 53743	ESD & JACK
	4822 267 31042	PHONE JACK
	4822 265 40721	10P
	4822 265 40475	8P
	4822 267 40697	6P
	4822 255 40916	HOLDER
	4822 276 11349	SWITCH

MISCELLANEOUS

1002	4822 242 72207	4,190 000 MC

CAPACITORS

2004	4822 122 33069	33 pF	50V
2005	4822 122 33069	33 pF	50V
2011	4822 122 10177	10 nF	25V
2012	4822 124 20679	100 µF	10V
2020	4822 124 41518	470 µF	16V
2021	4822 121 51298	1.5 nF	
2022	4822 121 51298	1.5 nF	
2031	4822 122 10177	10 nF	25V
2070	4822 122 33197	1 nF	50V
2071	4822 122 33197	1 nF	50V

RESISTORS

3001	4822 116 80175	4.7 kΩ
3020	4822 116 52182	15 Ω
3021	4822 116 52182	15 Ω
3022	4822 050 22004	200 kΩ
3023	4822 050 22004	200 kΩ
3026	4822 050 11003	10 kΩ
3027	4822 050 11003	10 kΩ
3028	4822 116 80173	10 kΩ
3029	4822 116 80173	10 kΩ
3030	4822 116 52249	1.8 kΩ
3031	4822 116 80173	10 kΩ
3032	4822 116 80173	10 kΩ
3033	4822 116 80173	10 kΩ
3040	4822 116 80175	4.7 kΩ
3041	4822 116 80175	4.7 kΩ
3042	4822 116 80175	4.7 kΩ
3043	4822 116 80175	4.7 kΩ
3050	4822 116 80175	4.7 kΩ
3051	4822 116 52175	100 Ω
3052	4822 116 52175	100 Ω
3061	4822 116 80173	10 kΩ
3066	4822 116 52249	1.8 kΩ
3067	4822 116 52249	1.8 kΩ
3068	4822 105 11025	Slide potentiometer
3070	4822 103 90072	Potentiometer
3081	4822 116 52175	100 Ω
3082	4822 116 52175	100 Ω
3083	4822 116 52176	10 Ω
3084	4822 116 52176	10 Ω
3085	4822 116 80175	4.7 kΩ
3086	4822 116 80175	4.7 kΩ
3090	4822 100 11092	4.7 kΩ
3091	4822 116 52249	1.8 kΩ
3092	4822 100 11092	4.7 kΩ
3093	4822 116 52249	1.8 kΩ
3094	4822 116 52263	2.7 kΩ
3095	4822 116 52263	2.7 kΩ

COILS

5010	4822 157 52286
5070	4822 157 52265
5071	4822 157 53937
5072	4822 157 52265

DIODES

6020	4822 130 81268	SD101A
6040	4822 130 30621	1N4148 (FSC)
6041	4822 130 30621	1N4148 (FSC)
6042	4822 130 30621	1N4148 (FSC)
6043	4822 130 30621	1N4148 (FSC)
6044	4822 130 30621	1N4148 (FSC)
6045	4822 130 30621	1N4148 (FSC)
6046	4822 130 30621	1N4148 (FSC)
6050	4822 130 34233	BZX55-C5V1
6072	4822 130 34278	BZX79-B6V8

TRANSISTORS & IC's

7030	4822 130 40937	TBC548B
7101	4822 209 60121	TMP47C670
7120	4822 209 80797	LM393N
7121	4822 214 33099	IR-RECEIVER
7140	4822 130 90635	17-MY-03-CK

P552

	4822 264 40256	3 fold
2001	4822 124 22451	22 µF 35 V
2002	4822 122 32972	1 nF
2003	4822 121 43145	33 nF 50 V
2004	4822 121 51304	10 nF 50 V
2005	4822 121 51307	27 nF 50 V
2006	4822 124 22451	22 µF 35 V
3001	5322 116 80438	330 Ω
3002	5322 116 80438	330 Ω
3003	4822 116 81172	8.2 kΩ
3004	4822 111 90248	2.2 kΩ
3005	4822 111 90381	1.5 Ω
3006	5322 116 80441	33 kΩ
3007	5322 116 80427	1 kΩ
3008	4822 111 90251	22 kΩ
5001	4822 157 53531	
6001	5322 130 31928	BAS 16
7001	5322 130 41983	BC 858B
7002	4822 130 60145	DTC 124EK
7003	4822 130 42615	BC 817-40

Control CBA P845

CONNECTORS

	4822 267 40696	SOCKET 3P
	4822 267 40624	SOCKET 5P
	4822 267 50621	SOCKET 7P
	4822 267 50723	SOCKET 13P
	4822 267 50406	SOCKET 8P
	4822 267 50722	SOCKET 10P
	4822 267 31084	SOCKET 1P

MISCELLANEOUS

1001	4822 071 51602	FUSE 1,6A
1003	4822 253 10054	FUSE T160 mA
1004	4822 253 10054	FUSE T160 mA
1005	4822 138 10313	1.2 V battery
1006	4822 242 72892	32,768 kHZ
1007	4822 071 55001	500 mA
1020	4822 242 71222	12,000 000 MHz

CAPACITORS

2005	4822 122 33104	100 nF 63V
2006	4822 122 33831	4,2PF-20PF
2014	4822 122 32442	10 nF 50V
2015	4822 121 42408	220 nF 63V
2016	4822 121 51115	270 nF 63V
2017	4822 124 40246	4.7 µF 63V
2020	4822 122 32444	33 pF
2021	4822 122 32444	33 pF
2024	4822 122 33104	100 nF 63V
2025	4822 122 31773	560 pF
2026	4822 122 33104	100 nF
2027	4822 124 40846	47 µF 35V
2031	4822 122 31772	47 pF 50V
2034	4822 122 31772	47 pF 50V
2037	4822 122 31772	47 pF 50V
2041	4822 124 22451	22 µF 35V
2048	4822 122 31772	47 pF
2049	4822 122 31772	47 pF
2050	4822 122 31772	47 pF
2053	4822 122 31961	68 pF
2055	4822 122 31961	68 pF
2056	4822 122 31961	68 pF
2057	4822 122 31961	68 pF
2060	4822 122 33104	100 nF
2061	4822 122 31772	47P
2062	4822 122 31772	47 pF
2063	4822 122 31772	47P
2064	4822 122 31772	47P
2090	4822 122 33104	100 nF 63V
2091	4822 122 31981	33 nF 63V
2092	4822 122 33104	100 nF 63V
2098	4822 122 31767	150 pF 50V
2058	4822 122 31772	47P
2059	4822 122 31772	47P
2700	4822 122 32442	10 nF

RESISTORS

3005	4822 051 10821	820 Ω
3006	4822 051 10103	10 kΩ
3007	4822 116 52275	360 kΩ
3008	4822 051 10103	10 kΩ
3014	4822 051 10102	1 kΩ
3015	4822 051 10103	10 kΩ
3016	4822 051 10103	10 kΩ
3017	4822 051 10103	10 kΩ
3018	4822 051 10103	10 kΩ
3020	4822 116 52215	220 Ω
3021	4822 116 52215	220 Ω
3022	4822 116 52175	100 Ω
3023	4822 116 52175	100 Ω
3024	4822 116 52175	100 Ω
3025	4822 116 52175	100 Ω
3026	4822 116 52175	100 Ω
3027	4822 116 52175	100 Ω
3028	4822 116 52175	100 Ω
3032	4822 051 10273	27 kΩ
3033	4822 051 10153	15 kΩ
3035	4822 051 10273	27 kΩ
3036	4822 051 10153	15 kΩ
3038	4822 051 10273	27 kΩ
3039	4822 051 10153	15 kΩ
3040	4822 050 11002	1kΩ
3041	4822 050 11002	1kΩ
3042	4822 050 11002	1kΩ
3048	4822 051 10151	150 Ω
3049	4822 051 10151	150 Ω
3050	4822 051 10151	150 Ω
3053	4822 051 10151	150 Ω
3055	4822 051 10151	150 Ω
3056	4822 051 10151	150 Ω
3057	4822 051 10151	150 Ω
3088	4822 051 10182	1,8 kΩ
3058	5322 116 80431	150 Ω
3059	5322 116 80431	150 Ω
3061	5322 116 80431	150 Ω
3062	5322 116 80431	150 Ω
3063	5322 116 80431	150 Ω
3064	4822 051 10151	150 Ω
3090	4822 051 10104	100kΩ
3091	4822 111 50497	1 MΩ
3092	4822 051 10562	5,6 kΩ
3093	4822 051 10101	100 Ω
3094	4822 051 10824	820 kΩ
3095	4822 051 10103	10 kΩ
3096	4822 051 10103	10 kΩ
3097	4822 051 10105	1 MΩ
3098	4822 051 10222	2.2 kΩ
3099	4822 051 10391	390 Ω
3610	4822 051 10223	22 kΩ
3611	4822 050 14703	47 kΩ
3700	4822 051 10102	1 kΩ
3701	4822 051 10103	10 kΩ
3907	4822 051 10008	0 Ω

COILS

5024	4822 157 52286
5025	4822 157 53005
5027	4822 157 53644
5041	4822 157 53644
5060	4822 157 53644
5090	4822 157 53644

DIODES

6001	4822 130 80867	UF5401 (GI)
6002	4822 130 80867	UF5401 (GI)
6003	4822 130 80867	UF5401 (GI)
6006	4822 130 31983	BAT85
6020	4822 130 31554	BZX79-C4V3
6021	4822 130 31554	BZX79-C4V3

Control CBA P845

TRANSISTORS & IC's

7005	4822 209 73197	PCF8583P
7006	4822 130 44197	BC558B
7010	5322 209 11065	IC PCF 8570R
7015	4822 209 82386	TL7705ACP
7020	4822 209 72411	IC MAB 8032.-12P
7024	4822 209 61647	74HCT573
7027	5322 209 10421	TC4094BP
7031	4822 130 40937	BC548B
7034	4822 130 40937	BC548B
7037	4822 130 40937	BC548B
7044	4822 209 73842	IC MK6116N-20
7060	4822 209 61648	IC S63512 H5CT-1P
7090	4822 209 73306	SDA5642
7099	4822 130 44197	BC558B
7610	5322 130 41982	BC848B

	4822 214 32672	P945–4c
	4822 214 32492	SI 5L unit
	4822 290 60801	Contact
	4822 290 60802	Contact
	5322 390 20011	silicon grease
	4822 401 11274	cable clamp

	4822 267 40696	3–fold
	4822 267 40624	5–fold
	4822 265 30733	6–fold
	4822 265 30732	6–fold
	4822 267 50722	10–fold
	4822 267 50651	12–fold
	4822 267 50723	13–fold
	4822 267 50723	13–fold
	4822 265 40902	15–fold

1301	4822 214 32485	luminance processing
1401	4822 242 72318	8,860 000 mc

1501	4822 252 51105	fuse 0,315A
1502	4822 253 10057	fuse 0,8A

2004	4822 121 51256	39 nF 50 V
2014	4822 122 31947	100 nF 63 V
2040	4822 124 22426	100 µF 16 V
2050	4822 122 31947	100 nF 63 V
2101	4822 121 43145	33 nF 50 V
2102	4822 121 43145	33 nF 50 V
2103	4822 121 51299	1 nF 50 V
2104	4822 122 33197	1 nF 50 V
2105	4822 121 51387	10 nF 16 V
2106	4822 121 51387	10 nF 16 V
2150	4822 124 41516	47 µF 16 V
2151	4822 124 41516	47 µF 16 V
2152	4822 122 33189	4,7 nF
2153	4822 121 51096	1,5 nF 50 V
2154	5322 121 42979	470 nF 63 V
2155	4822 122 31947	100 nF 63 V
2156	4822 121 51303	4,7 nF 50 V
2157	4822 121 42408	220 nF 63 V
2158	4822 122 32442	10 nF 50 V
2159	4822 122 31947	100 nF 63 V
2201	4822 122 31759	18 nF
2202	4822 122 31947	100 nF 63 V
2203	4822 122 31759	18 nF
2204	4822 121 41849	100 nF 630 V
2205	5322 121 42979	470 nF 63 V
2206	5322 122 31848	33 nF 63 V
2207	4822 122 33188	3,3 nF
2208	5322 122 31848	33 nF 63 V
2209	4822 121 51435	3,3 nF 100/63 V
2210	4822 121 43145	33 nF 50 V
2211	4822 121 42687	3,3 nF 63 V
2212	4822 124 41704	2,2 µF 50 V
2213	4822 124 41704	2,2 µF 50 V
2214	4822 124 41704	2,2 µF 50 V
2216	4822 121 42408	220 nF 63 V
2217	4822 122 33184	1 nF
2219	4822 121 42408	220 nF 63 V
2220	4822 122 33184	1 nF

2221	4822 124 41516	47 µF 16 V
2250	4822 122 33189	4,7 nF
2251	4822 122 31947	100 nF
2252	4822 121 51496	82 nF 50 V
2253	4822 121 51496	82 nF 50 V
2254	4822 121 51496	82 nF 50 V
2255	4822 124 22419	4,7 µF 35 V
2256	4822 124 22419	4,7 µf 35v
2257	4822 124 22419	4,7 µf 35v
2258	4822 121 41849	100 nF 63 V
2259	4822 124 22426	100 µF 16 V
2260	4822 122 33184	1 nF
2261	4822 121 51387	10 nF 16 V
2270	4822 122 31765	100 pF 50 V
2303	4822 122 31772	47 pF 50 V
2304	4822 124 41708	4,7 µF 25 V
2305	4822 124 20686	4,7 µF 16 V
2306	4822 124 41709	22 µF 6,3 V
2307	4822 124 41588	4,7 µF 25 V
2308	5322 121 42979	470 nF 63 V
2309	4822 122 33184	1 nF
2310	4822 122 32442	10 nF 50 V
2311	4822 122 31947	100 nF 63 V
2312	4822 124 41516	47 µF 16 V
2313	4822 124 41516	47 µF 16 V
2314	4822 122 31947	100 nF 63 V
2315	4822 122 32504	15 pF 50 V
2316	4822 122 31972	39 pF 50 V
2318	4822 124 20686	4,7 µF 16 V
2319	4822 124 41709	22 µF 6,3 V
2320	4822 124 20679	100 µF 10 V
2321	4822 122 32482	22 pF 63 V
2322	4822 122 10166	22 nF 16 V
2323	4822 124 22429	1 µF 50 V
2324	4822 122 31972	39 pF 50 V
2325	4822 122 31774	56 pF 50 V
2326	4822 122 31766	120 pF 50 V
2327	4822 124 41588	4,7 µF 25 V
2328	4822 124 41516	47 µF 16 V
2329	4822 122 31349	68 pF 100 V
2330	4822 122 31769	18 pF 50 V
2331	4822 122 31769	18 pF 50 V
2333	4822 122 31772	47 pF 50 V
2334	4822 122 32482	22 pF 63 V
2335	4822 122 10177	10 nF 25 V
2336	4822 122 31947	100 nF 63 V
2341	4822 124 41516	47 µF 16 V
2342	4822 122 31947	100 nF 63 V
2343	4822 122 31961	68 pF 63 V
2344	4822 122 31972	39 pF 50 V
2345	4822 122 32442	10 nF 50 V
2346	4822 122 10166	22 nF 16 V
2347	4822 122 31961	68 pF 63 V
2350	4822 122 31766	120 pF 50 V
2351	4822 122 31825	27 pF 50 V
2352	4822 122 32444	33 pF 50 V
2353	4822 122 31773	560 pF 50 V
2354	4822 122 31839	82 pF 50 V
2355	4822 122 31768	180 pF 50 V
2356	4822 122 32139	12 pF 63 V
2357	4822 122 10177	10 nF 25 V
2358	4822 122 31947	100 nF 63 V
2402	4822 122 32442	10 nF 50 V
2404	4822 122 31947	100 nF 63 V
2405	4822 122 33184	1 nF
2406	4822 122 33184	1 nF

2407	4822 122 33184	1 nF
2408	4822 122 33184	1 nF
2409	4822 122 33184	1 nF
2410	4822 122 31947	100 nF 63 V
2411	4822 124 22658	2200 µF 50 V
2412	4822 122 10466	220 pF 50 V
2413	4822 121 42408	220 nF 63 V
2414	4822 121 42408	220 nF 63 V
2415	4822 122 31759	18 nF
2416	4822 122 31352	180 pF 100 V
2419	4822 122 33195	100 pF 50 V
2420	4822 122 32597	6,8 nF 63 V
2421	4822 124 22655	1,5 µF 50 V
2423	4822 122 32566	3,9 nF 63 V
2424	4822 122 32542	47 nF 63 V
2425	4822 122 33849	150 pF 50 V
2426	4822 122 31759	18 nF
2428	4822 122 31947	100 nF 63 V
2429	4822 122 31947	100 nF 63 V
2430	4822 124 22655	1,5 µF 50 V
2431	4822 122 32566	3,9 nF 63 V
2432	4822 125 50394	4,5 pF-20 pF
2433	4822 124 41516	47 µF 16 V
2434	4822 122 33847	10 pF 50 V
2435	4822 122 32542	47 nF 63 V
2437	4822 122 31965	220 pF 63 V
2442	4822 122 33184	1 nF
2443	4822 124 41516	47 µF 16 V
2444	4822 122 32442	10 nF 50 V
2445	4822 122 32083	8,2 pF 50 V
2446	4822 122 32442	10 nF 50 V
2447	4822 124 41588	4,7 µF 25 V
2448	4822 122 33184	1 nF
2449	4822 122 32442	10 nF 50 V
2450	4822 122 31825	27 pF 50 V
2451	4822 122 32425	2,2 pF 50 V
2453	4822 122 31972	39 pF 50 V
2454	4822 122 32566	3,9 nF 63 V
2455	4822 124 22654	0,47 µF 50 V
2456	4822 122 32442	10 nF 50 V
2457	4822 122 31759	18 nF
2458	4822 124 22654	0,47 µF 50 V
2459	4822 122 31765	100 pF 50 V
2460	4822 122 32442	10 nF 50 V
2501	4822 124 20678	47 µF 10 V
2502	4822 122 31947	100 nF 63 V
2503	4822 124 20678	47 µF 10 V
2504	4822 122 31947	100 nF 63 V
2505	4822 122 32442	10 nF 50 V
2506	4822 122 33184	1 nF
2507	4822 122 31947	100 nF 63 V
2508	4822 124 20686	4,7 µF 16 V
2509	4822 122 31772	47 pF 50 V
2510	4822 122 31765	100 pF 50 V
2511	4822 122 31839	82 pF 50 V
2512	4822 124 20686	4,7 µF 16 V
2513	4822 124 20697	10 µF 25 V
2514	4822 122 31947	100 nF 63 V
2515	4822 122 31947	100 nF 63 V
2516	4822 124 20697	10 µF 25 V
2517	4822 122 31947	100 nF 63 V
2518	4822 122 31947	100 nF 63 V
2520	4822 122 33184	1 nF
2521	4822 122 31947	100 nF 63 V
2522	4822 122 31961	68 pF 63 V
2523	4822 122 31759	18 nF

2540	4822 122 31765	100 pF 50 V
2541	4822 122 32566	3,9 nF 63 V
2551	4822 124 41703	470 µF 6,3 V
2552	4822 122 31759	18 nF
2603	4822 122 33189	4,7 nF
2604	4822 124 41516	47 µF 16 V
2605	4822 124 41588	4,7 µF 25 V
2606	4822 124 41707	47 µF 10 V
2608	4822 121 43144	22 nF 50 V
2610	4822 121 51304	10 nF 50 V
2612	4822 124 41516	47 µF 16 V
2613	4822 121 51096	1,5 nF 50 V
2614	4822 124 41706	4,7 µF 50 V
2615	4822 122 33184	1 nF
2616	4822 121 51304	10 nF 50 V
2617	4822 124 41707	47 µF 10 V
2618	4822 124 20686	4,7 µF 16 V
2619	4822 122 33184	1 nF
2620	4822 124 41588	4,7 µF 25 V
2621	4822 122 33184	1 nF
2622	4822 124 41707	47 µF 10 V
2623	5322 121 42979	470 nF 63 V
2624	4822 122 31765	100 pF 50 V
2625	4822 122 31765	100 pF 50 V
2626	4822 122 31965	220 pF 63 V
2627	4822 122 33182	680 pF
2666	4822 124 22451	22 µF 35C
2667	4822 122 30027	1 nF 100 V
2668	4822 121 51251	47 nF 50 V
2669	4822 124 22451	22 µF 35 V
2670	4822 121 51307	27 nF 50 V
2670	4822 121 51521	12 nF 50 V
2671	4822 121 42915	330 pF
2701	4822 122 31765	100 pF 50 V
2702	4822 122 32442	10 nF 50 V
2703	4822 124 20678	47 µF 10 V
2704	4822 122 32442	10 nF 50 V
2705	4822 122 33184	1 nF
2706	4822 122 33184	1 nF
2707	4822 126 10138	270 pF 63 V
2708	4822 122 31947	100 nF 63 V
2709	4822 122 32442	10 nF 50 V
2751	4822 124 41705	10 µF 35 V
2752	4822 124 41705	10 µF 35 V
2753	4822 121 42915	330 pF
2754	4822 124 41705	10 µF 35 V
2755	4822 124 41705	10 µF 35 V
2756	4822 124 41705	10 µF 35 V
2757	4822 122 32442	10 nF 50 V
2758	4822 122 32442	10 nF 50 V
2759	48[illegible] 122 32442	10 nF 50 V
2760	4822 [illegible] 41516	47 µF 16 V
2761	4822 122 32542	47 nF 63 V
2762	4822 122 31972	39 pF 50 V
2763	4822 122 32442	10 nF 50 V

3001	4822 116 80173	10 kΩ
3002	4822 116 80173	10 kΩ
3003	4822 111 90249	10 kΩ
3004	4822 116 52204	1 kΩ
3005	5322 116 80427	1.0 kΩ
3010	4822 111 90251	22 kΩ
3011	4822 116 52204	1 kΩ
3012	4822 116 52759	10 kΩ

FAMILY BOARD

Item	Code	Value
3013	4822 116 80173	10 kΩ
3014	4822 111 90249	10 kΩ
3015	4822 111 90249	10 kΩ
3016	4822 116 52759	10 kΩ
3017	4822 111 90249	10 kΩ
3018	4822 111 90249	10 kΩ
3019	5322 116 80445	4.7 kΩ
3020	4822 116 80173	10 kΩ
3021	4822 111 90249	10 kΩ
3023	4822 101 10855	22 kΩ
3026	5322 116 80446	47 kΩ
3027	4822 116 52284	47 kΩ
3028	5322 116 80446	47 kΩ
3029	4822 116 52204	1 kΩ
3032	4822 116 52204	1 kΩ
3040	4822 116 52215	220 Ω
3041	5322 116 80427	1.0 kΩ
3042	4822 116 52215	220 Ω
3101	4822 116 81213	22 kΩ
3102	4822 116 81214	220 kΩ
3103	4822 116 81213	22 kΩ
3104	4822 116 81214	220 kΩ
3105	4822 116 53094	6.8 kΩ
3106	4822 116 81215	75 kΩ
3107	4822 116 81215	75 kΩ
3108	5322 116 80445	4.7 kΩ
3109	5322 116 80429	100 kΩ
3110	5322 116 80429	100 kΩ
3111	5322 116 80447	470 kΩ
3112	5322 116 80447	470 kΩ
3113	4822 111 90571	3.9 kΩ
3114	5322 116 80446	47 kΩ
3116	5322 116 80427	1.0 kΩ
3117	4822 100 11364	10 kΩ LIN
3120	4822 116 52175	100 Ω
3121	5322 116 80429	100 kΩ
3122	5322 116 80429	100 kΩ
3123	4822 111 90249	10 kΩ
3124	4822 111 90249	10 kΩ
3125	4822 116 52222	390 Ω
3126	4822 116 52204	1 kΩ
3127	4822 116 52204	1 kΩ
3128	5322 116 80427	1.0 kΩ
3129	4822 116 52191	33 Ω
3148	4822 116 52776	2.2 kΩ
3149	4822 116 52776	2.2 kΩ
3150	4822 116 52758	1 kΩ
3151	5322 116 80429	100 kΩ
3152	5322 116 80444	470 Ω
3153	4822 116 81201	390 kΩ
3154	5322 116 80446	47 kΩ
3155	5322 116 80427	1.0 kΩ
3156	5322 116 80429	100 kΩ
3157	5322 116 80429	100 kΩ
3158	4822 116 80173	10 kΩ
3159	5322 116 80429	100 kΩ
3160	5322 116 80429	100 kΩ
3161	4822 111 90249	10 kΩ
3162	4822 111 90249	10 kΩ
3163	5322 116 80429	100 kΩ
3164	4822 111 90249	10 kΩ
3165	5322 116 80447	470 kΩ
3166	4822 111 90249	10 kΩ
3167	4822 116 80175	4.7 kΩ
3168	5322 116 80429	100 kΩ
3169	4822 111 90249	10 kΩ
3170	5322 116 80446	47 kΩ
3171	5322 116 80445	4.7 kΩ
3172	4822 116 52175	100 Ω
3173	4822 116 52175	100 Ω
3174	5322 116 80442	390 Ω
3175	4822 116 40151	5R6
3176	4822 116 81199	270 Ω
3177	4822 116 52758	1 kΩ
3201	4822 116 52244	15 kΩ
3202	5322 116 80427	1.0 kΩ
3203	5322 116 80427	1.0 kΩ
3204	4822 111 90251	22 kΩ
3205	4822 111 90251	22 kΩ
3206	4822 111 90249	10 kΩ
3207	4822 116 81202	62 kΩ
3210	4822 111 30483	1 Ω
3211	5322 116 80427	1 kΩ
3212	4822 116 52191	33 Ω
3213	4822 116 52191	33 Ω
3214	4822 116 52191	33 Ω
3215	4822 116 52191	33 Ω
3216	5322 116 80427	1.0 kΩ
3217	5322 116 80446	47 kΩ
3218	4822 116 80175	4.7 kΩ
3219	5322 116 80445	4.7 kΩ
3220	5322 116 80427	1.0 kΩ
3221	5322 116 80446	47 kΩ
3222	4822 116 80175	4.7 kΩ
3223	5322 116 80445	4.7 kΩ
3224	4822 116 81165	1 MΩ
3225	4822 116 81165	1 MΩ
3227	4822 116 80175	4.7 kΩ
3228	5322 116 80445	4.7 kΩ
3248	4822 116 80176	1 Ω
3249	4822 111 30483	1 Ω
3250	4822 116 81213	22 kΩ
3251	4822 116 81712	620 kΩ
3252	4822 116 52759	10 kΩ
3253	4822 116 52234	100 kΩ
3254	4822 116 81154	2R2
3255	4822 116 52197	56 Ω
3256	4822 116 52197	56 Ω
3257	4822 116 52197	56 Ω
3259	5322 116 80429	100 kΩ
3260	5322 116 80447	470 kΩ
3261	4822 111 90249	10 kΩ
3262	4822 111 90571	3.9 kΩ
3263	4822 111 90249	10 kΩ
3264	4822 111 90249	10 kΩ
3265	4822 116 52759	10 kΩ
3266	4822 116 52759	10 kΩ
3267	5322 116 80445	4.7 kΩ
3268	5322 116 80445	4.7 kΩ
3269	5322 116 80427	1.0 kΩ
3270	5322 116 80427	1.0 kΩ
3271	5322 116 80429	100 kΩ
3272	4822 116 52215	220 Ω
3273	4822 111 90249	10 kΩ
3274	5322 116 80447	470 kΩ
3275	5322 116 80427	1.0 kΩ
3276	5322 116 80427	1.0 kΩ
3277	4822 116 80173	10 kΩ
3278	4822 116 52297	68 kΩ
3304	4822 116 81205	2M2
3305	5322 116 80442	390 Ω
3306	5322 116 80445	4.7 kΩ

3307	5322 111 90096	1.2 kΩ	3428	4822 111 90544	6.8 kΩ
3308	5322 111 90092	1 kΩ	3429	4822 116 52204	1 kΩ
3314	4822 111 90151	1.5 kΩ	3431	4822 116 81198	15 kΩ
3315	4822 100 11091	1 kΩ	3432	4822 111 90249	10 kΩ
3316	5322 116 80444	470 Ω	3433	4822 116 80173	10 kΩ
3317	4822 116 81207	47 Ω	3434	4822 116 52263	2.7 kΩ
3318	4822 116 81207	47 Ω	3435	4822 116 81202	62 kΩ
3319	4822 116 52239	120 kΩ	3436	4822 116 80174	2.2 kΩ
3320	4822 116 81168	560 Ω	3437	4822 116 52228	680 Ω
3322	4822 111 90248	2.2 kΩ	3438	5322 111 90138	390 Ω
3323	4822 116 81167	1.8 kΩ	3439	4822 116 52391	1 kΩ
3324	4822 116 81167	1.8 kΩ	3440	4822 116 81197	12 kΩ
3326	4822 111 90151	1.5 kΩ	3441	5322 116 80427	1.0 kΩ
3327	5322 116 80431	150 Ω	3442	5322 116 81136	1.2 kΩ
3328	5322 111 90101	1.8 kΩ	3443	4822 111 90151	1.5 kΩ
3329	4822 111 90251	22 kΩ	3445	4822 116 81209	5M6
3330	4822 116 81202	62 kΩ	3446	4822 116 81199	270 Ω
3341	4822 116 81167	1.8 kΩ	3447	4822 116 81209	5M6
3342	4822 116 81199	270 Ω	3450	4822 111 90571	3.9 kΩ
3343	4822 116 81167	1.8 kΩ	3451	4822 111 90151	1.5 kΩ
3344	4822 116 52224	470 Ω	3452	5322 116 80442	390 Ω
3345	5322 116 80427	1.0 kΩ	3453	5322 116 80427	1.0 kΩ
3346	5322 116 80444	470 Ω	3455	4822 111 90249	10 kΩ
3347	4822 116 81167	1.8 kΩ	3456	4822 116 81205	2M2
3348	4822 116 81198	15 kΩ	3457	4822 111 90249	10 kΩ
3349	4822 116 81198	15 kΩ	3458	5322 116 80438	330 Ω
3350	5322 116 80449	680 Ω	3459	4822 116 52284	47 kΩ
3351	4822 116 81168	560 Ω	3460	4822 101 10855	22 kΩ
3352	4822 116 81168	560 Ω	3461	4822 111 90197	220 kΩ
3353	5322 116 80427	1.0 kΩ	3462	4822 111 90249	10 kΩ
3354	5322 116 80438	330 Ω	3463	4822 116 81208	5.6 kΩ
3355	4822 111 90248	2.2 kΩ	3464	4822 111 90197	220 kΩ
3360	4822 111 90248	2.2 kΩ	3465	5322 116 80449	680 Ω
3361	4822 111 90249	10 kΩ	3466	5322 116 80427	1.0 kΩ
3362	4822 116 81208	5.6 kΩ	3501	4822 116 81207	47 Ω
3363	5322 116 80427	1.0 kΩ	3502	4822 116 81207	47 Ω
3364	5322 116 81136	1.2 kΩ	3504	5322 116 80444	470 Ω
3365	5322 116 80427	1.0 kΩ	3505	4822 100 11205	470 Ω LIN
3366	5322 116 80427	1.0 kΩ	3506	4822 111 90248	2.2 kΩ
3368	4822 116 81167	1.8 kΩ	3507	4822 116 81204	180 Ω
3369	4822 116 81206	22 Ω	3509	5322 116 80429	100 kΩ
3370	4822 116 52204	1 kΩ	3510	5322 116 80429	100 kΩ
3372	4822 116 81207	47 Ω	3511	4822 116 52204	1 kΩ
3401	4822 116 81199	270 Ω	3512	4822 116 81167	1.8 kΩ
3402	5322 116 80427	1.0 kΩ	3513	4822 116 81207	47 Ω
3403	5322 116 81136	1.2 kΩ	3520	4822 116 52243	1.5 kΩ
3404	5322 116 81136	1.2 kΩ	3521	4822 111 90248	2.2 kΩ
3405	4822 111 90249	10 kΩ	3522	4822 111 90571	3.9 kΩ
3406	4822 111 90151	1.5 kΩ	3523	5322 116 80431	150 Ω
3407	4822 111 90151	1.5 kΩ	3524	5322 116 80426	100 Ω
3409	5322 116 80427	1.0 kΩ	3525	5322 116 80446	47 kΩ
3410	4822 111 90248	2.2 kΩ	3540	5322 116 80429	100 kΩ
3411	5322 116 80444	470 Ω	3541	4822 116 80173	10 kΩ
3412	5322 116 80444	470 Ω	3542	5322 116 80446	47 kΩ
3413	5322 116 80427	1.0 kΩ	3543	5322 116 80445	4.7 kΩ
3414	5322 116 80449	680 Ω	3544	5322 116 80445	4.7 kΩ
3418	4822 116 52478	82 kΩ	3545	4822 111 90249	10 kΩ
3419	4822 116 52215	220 Ω	3546	5322 116 80427	1.0 kΩ
3420	4822 116 52204	1 kΩ	3552	5322 116 80427	1.0 kΩ
3421	4822 116 80173	10 kΩ	3553	5322 116 80446	47 kΩ
3422	4822 116 52284	47 kΩ	3556	4822 111 90248	2.2 kΩ
3423	4822 116 81197	12 kΩ	3557	5322 116 80444	470 Ω
3424	5322 116 80597	16 kΩ	3558	4822 116 81168	560 Ω
3425	5322 116 80429	100 kΩ	3559	4822 116 52263	2.7 kΩ
3426	4822 101 10855	22 kΩ	3560	4822 116 81206	22 Ω
3427	5322 116 80429	100 kΩ	3601	5322 116 80446	47 kΩ

FAMILY BOARD

Resistors		
3602	5322 116 80446	47 kΩ
3603	5322 116 80426	100 Ω
3604	5322 116 80437	2.7 kΩ
3611	4822 116 52217	270 Ω
3612	4822 116 52217	270 Ω
3613	4822 111 90249	10 kΩ
3614	4822 111 90251	22 kΩ
3616	4822 116 81199	270 Ω
3617	4822 116 81207	47 Ω
3619	4822 116 81167	1.8 kΩ
3620	4822 116 81197	12 kΩ
3625	5322 116 80444	470 Ω
3626	4822 116 81201	390 kΩ
3627	4822 116 81197	12 kΩ
3628	4822 111 90544	6.8 kΩ
3629	4822 100 11364	10 kΩ LIN
3632	4822 116 81165	1 MΩ
3633	5322 116 80429	100 kΩ
3634	4822 116 81208	5.6 kΩ
3635	4822 111 90544	6.8 kΩ
3636	5322 116 80441	33 kΩ
3637	4822 116 81199	270 Ω
3638	5322 116 80429	100 kΩ
3639	5322 116 80429	100 kΩ
3640	5322 116 80446	47 kΩ
3641	5322 116 80429	100 kΩ
3642	5322 116 80429	100 kΩ
3643	4822 116 81207	47 Ω
3644	4822 116 52269	3.3 kΩ
3645	4822 116 52269	3.3 kΩ
3646	4822 116 52269	3.3 kΩ
3647	4822 111 90157	3.3 kΩ
3661	5322 116 80437	2.7 kΩ
3662	4822 116 81168	560 Ω
3663	4822 116 81206	22 Ω
3666	4822 116 52284	47 kΩ
3667	4822 116 80691	1R5
3668	4822 101 10854	100 kΩ
3701	4822 111 90249	10 kΩ
3704	5322 116 80446	47 kΩ
3705	5322 116 80445	4.7 kΩ
3706	4822 116 81172	8.2 kΩ
3707	5322 116 80445	4.7 kΩ
3708	4822 111 90248	2.2 kΩ
3709	4822 111 90544	6.8 kΩ
3710	4822 111 90249	10 kΩ
3712	4822 111 90248	2.2 kΩ
3751	4822 111 90151	1.5 kΩ
3752	5322 116 80444	470 Ω
3753	5322 116 80444	470 Ω
3754	4822 111 90171	820 Ω
3755	5322 116 80427	1.0 kΩ
3756	5322 116 80429	100 kΩ
3757	4822 100 11364	10 kΩ LIN
3758	4822 111 90248	2.2 kΩ
3759	4822 116 81208	5.6 kΩ
3801	4822 111 90163	Jumper
3803	4822 111 90163	Jumper
3804	4822 111 90163	Jumper
3805	4822 111 90163	Jumper
3806	4822 111 90163	Jumper
3807	4822 111 90163	Jumper
3808	4822 111 90163	Jumper
3809	4822 111 90163	Jumper
3810	4822 111 90163	Jumper
3811	4822 111 90163	Jumper
3812	4822 111 90163	Jumper
3813	4822 111 90163	Jumper
3814	4822 111 90163	Jumper
3815	4822 111 90163	Jumper
3816	4822 111 90163	Jumper
3817	4822 111 90163	Jumper
3818	4822 111 90163	Jumper
3820	4822 111 90163	Jumper
3821	4822 111 90163	Jumper
3822	4822 111 90163	Jumper
3823	4822 111 90163	Jumper
3824	4822 111 90163	Jumper
3825	4822 111 90163	Jumper
3826	4822 111 90163	Jumper
3901	4822 111 90163	Jumper
3902	4822 111 90163	Jumper
3903	4822 111 90163	Jumper
3904	4822 111 90163	Jumper
3905	4822 111 90163	Jumper
3906	4822 111 90163	Jumper
3907	4822 111 90163	Jumper
3908	4822 111 90163	Jumper
3909	4822 111 90163	Jumper
3911	4822 111 90163	Jumper
3912	4822 111 90163	Jumper
3913	4822 111 90163	Jumper
3914	4822 111 90163	Jumper
3915	4822 111 90163	Jumper
3920	4822 111 90163	Jumper
3921	4822 111 90163	Jumper
3922	4822 111 90163	Jumper

Coils	
5301	4822 157 53252
5302	4822 242 72315
5304	4822 157 53265
5305	4822 157 60101
5306	4822 157 60101
5307	4822 157 50961
5308	4822 156 21454
5309	4822 157 53265
5310	4822 157 60082
5311	4822 157 53951
5312	4822 157 53265
5341	4822 157 50961
5342	4822 157 52842
5343	4822 157 52842
5344	4822 157 53253
5345	4822 157 53265
5346	4822 157 60082
5347	4822 157 52842
5401	4822 157 53251
5402	4822 320 40168
5403	4822 242 72316
5404	4822 157 53265
5405	4822 242 72317
5407	4822 157 52684
5408	4822 156 21453
5409	4822 157 52684
5410	4822 157 52265
5413	4822 157 52265
5501	4822 157 50964
5503	4822 157 53252
5520	4822 157 53952
5601	4822 157 53249

5662	4822 158 10525	
5664	4822 157 53531	
5701	4822 157 50961	
5702	4822 157 60102	
5751	4822 157 52265	

6002	4822 130 34233	BZX55-B5V1
6020	4822 130 30621	1N4148
6040	4822 130 34233	BZX55-B5V1
6041	4822 130 34233	BZX55-B5V1
6150	4822 130 81423	BZV86-C1V4
6151	4822 130 81423	BZV86-C1V4
6152	4822 130 81279	BYT52G
6301	4822 130 33668	BZX55-B9V1
6401	4822 130 30621	1N4148
6402	4822 130 30621	1N4148
6501	4822 130 33668	BZX55-B9V1
6502	4822 130 30621	1N4148
6503	4822 130 30621	1N4148
6520	4822 130 30621	1N4148
6550	4822 130 30621	1N4148
6701	4822 130 30621	1N4148
6702	4822 130 30621	1N4148

7001	5322 130 41983	BC858B
7011	5322 130 41983	BC858B
7012	5322 130 41982	BC848B
7014	5322 130 41982	BC848B
7015	5322 130 41982	BC848B
7016	5322 130 41982	BC848B
7017	5322 130 41982	BC848B
7103	5322 130 41982	BC848B
7105	5322 130 41982	BC848B
7120	5322 130 41982	BC848B
7121	5322 130 41982	BC848B
7151	5322 130 41982	BC848B
7152	5322 130 41982	BC848B
7153	5322 130 41982	BC848B
7154	5322 130 41982	BC848B
7155	4822 130 60492	BC376
7253	5322 130 44336	BSV52
7254	5322 130 44336	BSV52
7303	5322 130 41982	BC848B
7305	4822 130 60145	DTC124E/25
7306	4822 130 61495	DTA124EK
7307	5322 130 41983	BC858B
7351	4822 130 42353	BSF19-F2
7352	5322 130 41982	BC848B
7353	4822 130 60145	DTC124E/25
7354	4822 130 42353	BSF19-F2
7355	4822 130 42353	BSF19-F2
7357	4822 130 42353	BSF19-F2
7358	5322 130 41983	BC858B
7401	5322 130 41983	BC858B
7402	5322 130 41982	BC848B
7403	4822 130 61495	DTA124EK
7404	5322 130 41983	BC858B
7407	5322 130 41982	BC848B
7408	4822 130 60145	DTC124E/25
7411	4822 130 60145	DTC124E/25
7412	5322 130 41983	BC858B
7501	5322 130 41982	BC848B
7503	5322 130 41982	BC848B
7520	4822 130 60383	BF824
7521	5322 130 41983	BC858B
7540	5322 130 41982	BC848B
7541	5322 130 41983	BC858B
7542	5322 130 44336	BSV52
7552	4822 130 60145	DTC124E/25
7553	4822 130 41715	BC328-40
7554	4822 130 44104	BC328
7601	5322 130 41982	BC848B
7602	5322 130 41982	BC848B
7604	5322 130 41982	BC848B
7661	4822 130 41715	BC328-40
7663	4822 130 41344	BC337-40
7701	4822 130 60145	DTC124E/25

7002	5322 209 11102	HEF4052BT
7003	4822 209 60177	LM339M
7009	4822 209 83331	SAD1009P
7050	5322 209 14543	HEF4071BT
7101	4822 209 60175	LM358M
7150	4822 209 60176	LM324M
7201	4822 209 60046	BA6432S
7202	4822 209 60177	LM339M
7250	4822 209 60048	AN3814K
7304	4822 209 60174	6967-RS
7405	4822 209 73582	TDA4710H/V2
7406	4822 209 60173	MST001RS
7502	4822 209 60171	MSM6989RS
7504	5322 209 11102	HEF4052BT
7543	4822 209 10265	HEF4070BP
7651	4822 209 60074	BA7766AS
7751	4822 209 60172	AN3494NK
7702	4822 290 60806	TDA4720/V1

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ORBITS          MEDEDELINGEN                                   91-04-18  09:45 08

TYPENUMMER     : VR6590                  VIDEO-AUDIO RECORDER           PHILIPS

 RG DOK DOK                DOK             DOKUMENT-INHOUD
 NR TYP NUMMER             SPEC
 01 EM      A2B ic           S  4822 209 618 87 JUISTE NR IC7701 OP P083









 03
 EGELNUMMER =        VOOR MEER INFORMATIE         * = ADDITIONELE INFO BESCHIKBAAR
PF4=VORIG SCH.     PF9=MENU     PF10=VOORUIT    PF11=ACHTERUIT    PF12=HOOFDMENU
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